

# Brian D Storey

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

3,758  
citations

331670

21  
h-index

302126

39  
g-index

40  
all docs

40  
docs citations

40  
times ranked

3921  
citing authors

#	ARTICLE	IF	CITATIONS
1	Double Layer in Ionic Liquids: Overscreening versus Crowding. <i>Physical Review Letters</i> , 2011, 106, 046102.	7.8	828
2	Towards an understanding of induced-charge electrokinetics at large applied voltages in concentrated solutions. <i>Advances in Colloid and Interface Science</i> , 2009, 152, 48-88.	14.7	742
3	Clusters of circulating tumor cells traverse capillary-sized vessels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 4947-4952.	7.1	364
4	Water vapour, sonoluminescence and sonochemistry. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2000, 456, 1685-1709.	2.1	297
5	Instability of electrokinetic microchannel flows with conductivity gradients. <i>Physics of Fluids</i> , 2004, 16, 1922-1935.	4.0	215
6	Effects of electrostatic correlations on electrokinetic phenomena. <i>Physical Review E</i> , 2012, 86, 056303.	2.1	126
7	Steric effects on ac electro-osmosis in dilute electrolytes. <i>Physical Review E</i> , 2008, 77, 036317.	2.1	114
8	Inertially driven inhomogeneities in violently collapsing bubbles: the validity of the Rayleigh-Plesset equation. <i>Journal of Fluid Mechanics</i> , 2002, 452, 145-162.	3.4	109
9	Perspective—Combining Physics and Machine Learning to Predict Battery Lifetime. <i>Journal of the Electrochemical Society</i> , 2021, 168, 030525.	2.9	107
10	A reduced model of cavitation physics for use in sonochemistry. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2001, 457, 1685-1700.	2.1	101
11	Nonlinear electrokinetics at large voltages. <i>New Journal of Physics</i> , 2009, 11, 075016.	2.9	83
12	Heat and mass transfer during the violent collapse of nonspherical bubbles. <i>Physics of Fluids</i> , 2003, 15, 2576-2586.	4.0	69
13	Mixture segregation within sonoluminescence bubbles. <i>Journal of Fluid Mechanics</i> , 1999, 396, 203-221.	3.4	68
14	The Olin Curriculum: Thinking Toward the Future. <i>IEEE Transactions on Education</i> , 2005, 48, 198-205.	2.4	56
15	Rayleigh-Taylor instability of violently collapsing bubbles. <i>Physics of Fluids</i> , 2002, 14, 2925-2928.	4.0	51
16	Radial response of individual bubbles subjected to shock wave lithotripsy pulses in vitro. <i>Physics of Fluids</i> , 2002, 14, 913-921.	4.0	51
17	Electrokinetic instabilities in thin microchannels. <i>Physics of Fluids</i> , 2005, 17, 018103.	4.0	43
18	A depth-averaged electrokinetic flow model for shallow microchannels. <i>Journal of Fluid Mechanics</i> , 2008, 608, 43-70.	3.4	35

#	ARTICLE	IF	CITATIONS
19	Learning the Physics of Pattern Formation from Images. <i>Physical Review Letters</i> , 2020, 124, 060201.	7.8	34
20	BEEP: A Python library for Battery Evaluation and Early Prediction. <i>SoftwareX</i> , 2020, 11, 100506.	2.6	29
21	Argon Rectification and the Cause of Light Emission in Single-Bubble Sonoluminescence. <i>Physical Review Letters</i> , 2002, 88, 074301.	7.8	28
22	Shape stability of sonoluminescence bubbles: Comparison of theory to experiments. <i>Physical Review E</i> , 2001, 64, 017301.	2.1	20
23	Electrohydrodynamic instabilities in microchannels with time periodic forcing. <i>Physical Review E</i> , 2007, 76, 026304.	2.1	19
24	The Materials Research Platform: Defining the Requirements from User Stories. <i>Matter</i> , 2019, 1, 1433-1438.	10.0	19
25	Field-amplified sample stacking and focusing in nanofluidic channels. <i>Physics of Fluids</i> , 2010, 22, .	4.0	18
26	Toward autonomous materials research: Recent progress and future challenges. <i>Applied Physics Reviews</i> , 2022, 9, .	11.3	17
27	Direct numerical simulation of electrohydrodynamic flow instabilities in microchannels. <i>Physica D: Nonlinear Phenomena</i> , 2005, 211, 151-167.	2.8	16
28	Bulk electroconvective instability at high Péclet numbers. <i>Physical Review E</i> , 2007, 76, 041501.	2.1	15
29	Instability of electro-osmotic channel flow with streamwise conductivity gradients. <i>Physical Review E</i> , 2008, 78, 046316.	2.1	14
30	Temperature distribution in an oscillatory flow with a sinusoidal wall temperature. <i>International Journal of Heat and Mass Transfer</i> , 2004, 47, 4929-4938.	4.8	13
31	Bistability in a simple fluid network due to viscosity contrast. <i>Physical Review E</i> , 2010, 81, 046316.	2.1	11
32	Nonextensive statistical mechanics for rotating quasi-two-dimensional turbulence. <i>Physica D: Nonlinear Phenomena</i> , 2004, 193, 252-264.	2.8	7
33	Laminar flow of two miscible fluids in a simple network. <i>Physics of Fluids</i> , 2013, 25, 033601.	4.0	6
34	Oscillations and Multiple Equilibria in Microvascular Blood Flow. <i>Bulletin of Mathematical Biology</i> , 2015, 77, 1377-1400.	1.9	5
35	Observations of spontaneous oscillations in simple two-fluid networks. <i>Physical Review E</i> , 2015, 91, 023004.	2.1	4
36	Spontaneous Oscillations in Simple Fluid Networks. <i>SIAM Journal on Applied Dynamical Systems</i> , 2014, 13, 157-180.	1.6	3

#	ARTICLE	IF	CITATIONS
37	Simulation of two-dimensional turbulent flows in a rotating annulus. International Journal for Numerical Methods in Fluids, 2004, 45, 231-252.	1.6	1
38	A Depth-Averaged Model for Electrokinetic Flows in a Thin Microchannel Geometry. , 2004, , .		1